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VC-PTZ16 (DANTE)

4K Ultra HD Video Conference Camera AI Tracking

PRODUCT OVERVIEW

The **VC-PTZ16 (DANTE)** is a high-performance 4K video conferencing camera engineered for professional meeting rooms, lecture halls, and broadcasting environments. Equipped with advanced AI tracking, Dante audio compatibility, and robust connectivity options, it delivers crystal-clear video and intelligent automation for seamless remote collaboration. The VC-PTZ16 is a next-generation video conferencing and live streaming camera engineered to deliver professional-grade 4K60P video, AI-powered auto tracking, and network audio integration via Dante. Designed for modern AV installations, it offers the perfect combination of ultra-high-definition imaging, intelligent automation, and flexible connectivity to meet the demands of today's hybrid communication environments.

KEY FEATURES

- **4K60P :** Using 1/1.8-inches high-quality UHD CMOS sensor with a maximum of 8.42 million pixels can realize 4K (3840x2160) ultra-high-resolution high-quality images. And downward compatible with 1080p, 720p and other resolutions.
- **AI Tracking :** With the help of the AI computing power of the chip, the camera is equipped with advanced AI algorithms to realize monocular humanoid tracking, which can realize automatic tracking of scenes such as education, conferences and live broadcasts.
- **Voice Tracking :** The built-in intelligent AI algorithm uses dual microphones to accurately locate the sound source. The camera can automatically find and track the speaker. When different speakers speak, the camera can switch between different speakers.
- **Multiple Interfaces:** Support HDMI and 3G-SDI interface, effective transmission distance of 3G-SDI is up to 150 meters (1080P30). HDMI or 3G-SDI, USB, LAN can output three HD digital signals at the same time.
- **HDMI2.0 :** Support HDMI 2.0 interface, which can directly output 4K/60P uncompressed digital video.
- **20x Optical Zoom + 60 ° Wide-angle Lens:** It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 20x optical zoom, and the maximum field angle is 60° .
- **NDI®|HX2:** Support low-latency NDI®|HX2 protocol, plug to play, minimal configuration and easy for deployment.
- **Multiple Interfaces:** HDMI2.0, USB2.0/3.0, 3G-SDI (Up to 150 meters transmission with 1080P30), LAN. Support HDMI/3G-SDI, USB, LAN streaming simultaneously.

APPLICATIONS

- Boardrooms
- Classrooms
- Auditorium

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TECHNICAL SPECIFICATIONS

Camera Specifications

Video Resolution	HDMI:4K/60, 4K/59.94, 4K/50, 4K/30, 4K/29.97, 4K/25, 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50; 3G-SDI:1080p/60, 1080p/59.94, 1080p/50, 1080p/30,1080p/29.97; 1080p/25, 1080i/60, 1080i/59.94fps; 1080i/50, 720p/60, 720p/50
Sensor	1/1.8 inches, CMOS, Effective Pixels: 8.42 Megapixels
Scanning Mode	Progressive
Lens	20x, f=6.25mm ~ 125mm, F1.58 ~ F3.95
Digital Zoom	16x
Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter Speed	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
SNR	≥55dB
Horizontal FOV	60° ~ 3.5°
Vertical FOV	35.7° ~ 2.0°
Pan Angle	±162.5°
Tilt Angle	-30° ~ +90°
Pan Speed	1.8° ~80° /S
Tilt Speed	1.5° ~49° /S
Image Flip	Support
Image Freeze	Support
PoE	Support
Preset Position	255
Preset Accuracy	0.1°

Interfaces Specifications

HD Output	1 × HDMI: Version 2.0 1 × 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard
Network Interface	1 × RJ45: 10M/100M/1000M adaptive Ethernet
Audio Interface	1 × LINE IN: 3.5mm Jack
USB Interface	1 × USB3.0, Type-C
Control Interface	1 × RS485: 3pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P 1 × RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P 1 × RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only
Power Interface	JEITA type (DC IN 12V)

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TECHNICAL SPECIFICATIONS

Network Specifications

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840×2160, 1920×1080, 1280×720, 1024×576 etc
Second Stream Resolution	720x576, 720x480, 320x240 etc
Video Bit Rate	First Stream: 32kbps–51200kbps Second Stream: 32kbps–20480kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps–50fps, 60Hz: 1fps–60fps
Audio Compression	AAC
Audio Bit Rate	96kbps, 128kbps
Protocols	NDI|HX2, SRT, TCP/IP, HTTP, RTSP, RTMP(s), Onvif, DHCP, Multicast, etc

USB Specifications

Operating System Supported	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.264 / MJPEG / H.265
Video Format	YUY2 :Max.1080p/30(USB3.0) YUY2 :Max.1080p/5(USB2.0) H.264 : Max.2160p/30 H.265 HEVC: Max.2160p/30 MJPEG: Max.2160p/30
USB Audio	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

General Specifications

Input Voltage	DC 12V / PoE+ (802.3at)
Input Current	2A (Max.)
Operating Temperature	10°C – 40°C
Storage Temperature	-40°C – 60°C
Power Consumption	18W
Dimension	223mm × 154.8mm × 165mm
Net Weight	1.8kg

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